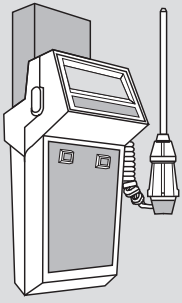

SureTemp®

THERMOMETER SYSTEM

DIRECTIONS FOR USE

TABLE OF CONTENTS

INTRODUCTION 2
SAFETY & WARNINGS 2
SETUP 3
CHANGING PROBES 4
OPERATION 4
TAKING ORAL TEMPERATURES 6
TAKING RECTAL TEMPERATURES 8
TAKING AXILLARY TEMPERATURES 9
FEATURES 10
DISPLAY & ERROR INDICATORS 11
CLEANING AND STERILIZATION 13
BATTERY REPLACEMENT 13
CUSTOMER SERVICE 14
ACCESSORIES AVAILABLE 14
SPECIFICATIONS 14
LIMITED WARRANTY ..... BACK COVER

CE

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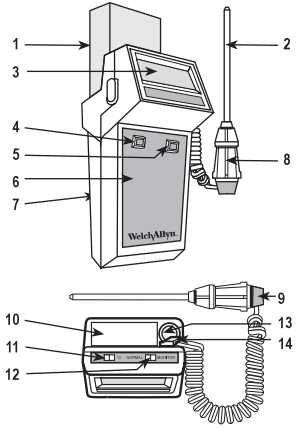


1. Probe cover box
2. Probe
3. Display
4. Backlight/Recall switch
5. Timer switch
6. Display legends
7. Battery access door
8. Probe handle collar
9. Ejection button
10. Probe cover storage well
11. Fahrenheit/Celsius select switch
12. Normal/Monitor mode select switch
13. Probe storage channel
14. Probe connector receptacle

Figure 1

INTRODUCTION

The Welch Allyn SureTemp® is a portable thermistor thermometer to be used for measuring patient temperatures ranging from 28.9°C to 42.2°C (84°F to 108°F). Oral and rectal probes utilize single-use disposable probe covers which limit cross-contamination. Oral and rectal temperatures are taken using Normal or Monitor operating modes. Axillary temperatures are taken using the **Monitor** operating mode. In the **Normal** mode, the thermometer's microprocessor "predicts" body temperature in about 4 seconds for oral temperatures and in about 15 seconds for rectal temperatures. The **Monitor** mode displays the temperature of the probe which will reflect the patient's actual temperature after 3 minutes and will continue for as long as the probe remains in place.

SAFETY & WARNINGS

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

In order to obtain accurate and reliable temperature-taking results and ensure patient safety, it is important that this booklet be read thoroughly prior to using the instrument. If you have any technical or clinical questions concerning the thermometer's use and/or care, please contact our Customer Service Department at (800) 854-2904.

- Single-use disposable probe covers, available from Welch Allyn, will limit patient cross-contamination. The use of any other probe cover or the failure to use a probe cover

may produce temperature errors and will invalidate the instrument's warranty.

- Oral probes (blue ejection button) are to be used for taking oral and axillary temperatures only. Rectal probes (red ejection button) are to be used for taking rectal temperatures only. The use of the wrong probe will produce temperature errors.
- The thermometer case is not waterproof; do not drip fluids onto it or immerse.
- Do not use this instrument for any purpose other than that specified in this booklet. Doing so will invalidate the instrument's warranty.
- Do not use the thermometer if you notice any signs of damage to the probe or instrument. Contact our Customer Service Department for immediate assistance.

SETUP

1. Unpack the Welch Allyn Thermometer System. Check for any damage that may have occurred during shipping.
2. Select the desired probe (oral probe - blue for oral or axillary, rectal probe - red).
3. Insert the connector plug into the probe connector receptacle. Check that the connection is secure.
4. Insert the probe shaft into the probe storage channel. (Figure 1).

5. Observe that the proper probe type is displayed briefly; OrL = Oral or rEC = Rectal. (Figure 2 shows Oral display). Make sure the display has returned to blank before removing probe to take a temperature.

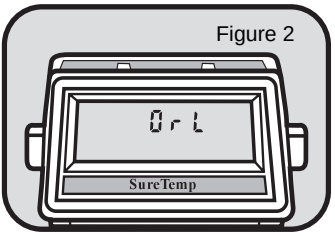


Figure 2

6. Remove the tab from a box of 25 Welch Allyn disposable probe covers (part number 05031) and insert the box into the storage well on the thermometer.

CHANGING PROBES

- Remove the probe from the probe storage channel.
- Unplug the probe connector from the thermometer.
- Repeat steps 2 through 5 in the SETUP section.

OPERATION

1. Place the carrying strap around your neck with the instrument display facing you.
2. Select temperature scale (Fahrenheit or Celsius) and temperature measurement mode (Normal or Monitor). (Figure 3). **(Most temperatures are taken in the Normal mode.)**

NOTE: Under certain conditions, the thermometer will automatically switch to Monitor mode. These conditions are:

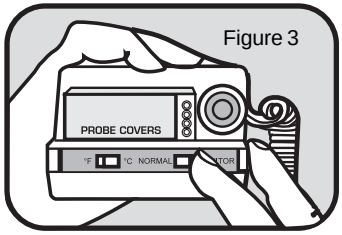


Figure 3

- The temperature of the probe is less than 94.5°F for 30 seconds after removing the probe from probe storage channel.
- The ambient temperature is greater than 93°F.
- The thermometer is unable to predict a temperature after 15 seconds due to improper technique (i.e., excessive probe movement).

3. Withdraw the probe from the storage channel and observe a quick thermometer self-test on the display. (Figure 4).

4. Load a probe cover onto the probe. Hold the probe handle collar with thumb and forefinger, being careful not to hold or press the “ejection” button. Press the collar down firmly to secure the cover. (Figure 5).

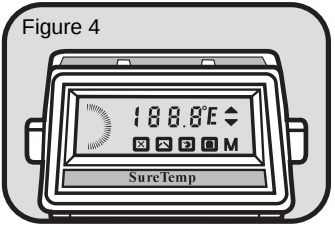


Figure 4

5. Wait for the display to indicate 0rL (oral) or rEC (rectal) - depending on probe type being used. This indicates the thermometer is ready to take a temperature. (Figure 6).

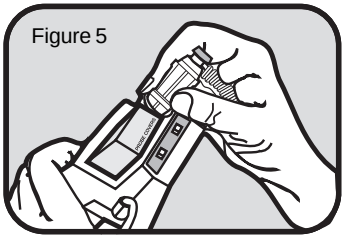


Figure 5

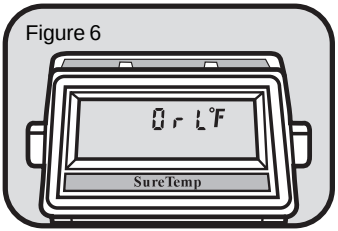


Figure 6

6. Take a temperature according to the following instructions:

TAKING ORAL TEMPERATURES

The ability of the SureTemp® to take an accurate temperature in 4 seconds requires correct user technique.

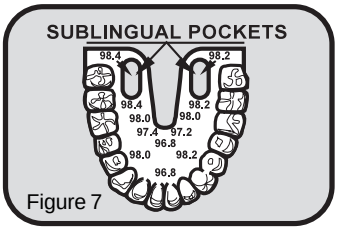
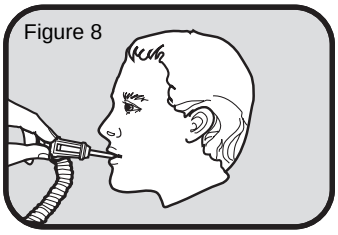


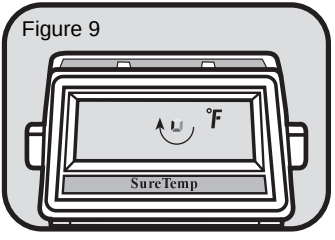
Figure 7

1. Insert the probe tip gently into the patient's slightly opened mouth. Quickly slide the probe under the tongue on either side of the mouth to reach the sublingual pocket. Have the patient close his/her lips around the probe. (Figure 7).

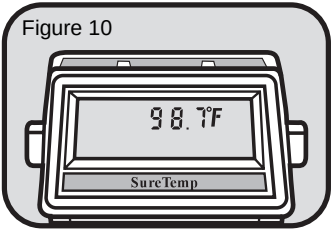
2. Hold the probe in place, keeping the tip in contact with tissue during the entire temperature measurement process. (Figure 8). **Holding the probe still will ensure a fast and accurate measurement.**



3. During the temperature measurement cycle, "walking" segments will appear on the display indicating measurement is in process. (Figure 9).



4. When the final temperature has been reached, a tone will sound and the patient's temperature will be displayed (Figure 10).



5. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button on the probe. (Figure 1).

NOTE: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes.

TAKING RECTAL TEMPERATURES

1. Exchange the oral probe (blue ejection button) for the rectal probe (red ejection button) by removing the probe from the storage channel, unplugging the probe connector from the thermometer, and repeating steps 2 through 5 in the SETUP section.

2. Attach a probe cover in the same manner as in the oral procedure.

3. Separate buttocks with one hand. Using the other hand, gently insert the probe only 1 cm (3/8 of an inch) inside the rectal sphincter (less for infants and children). The use of lubricant is optional. ***WARNING:*** **Incorrect insertion can cause bowel perforation.** Tilt the probe so the tip is touching tissue. Keep hand separating buttocks in place. Hold the probe in place during the entire temperature measurement process. (Figure 11).

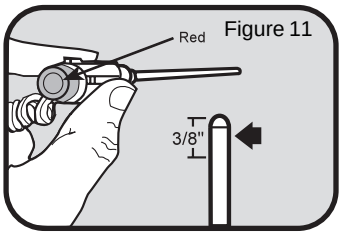


Figure 11

4. When the final temperature has been reached, a tone will sound and the patient's temperature will be displayed. The rectal temperature measurement will take about 15 seconds. (Figure 12).

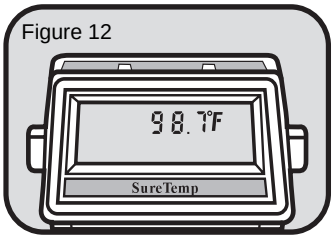


Figure 12

5. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button on the probe. (Figure 1).
6. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

NOTE: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes.

TAKING AXILLARY TEMPERATURES

Axillary temperatures should only be taken when the SureTemp 4® is in the Monitor mode with an oral probe.

1. Set the thermometer to the Monitor mode. (Figure 13).
2. Dry the axilla prior to placing the probe.

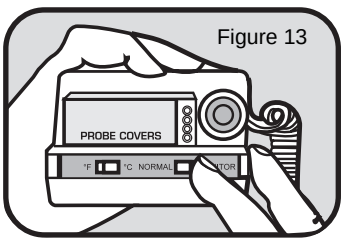
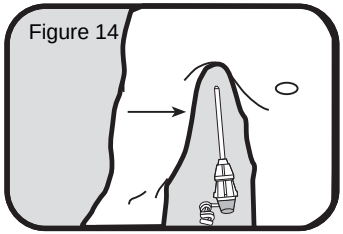


Figure 13

Place arm snugly at the patient's side to reduce the cooling effects of evaporation and convection. Leave probe in place for approximately 3 minutes. (Figure 14).



3. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button. (Figure 1).

4. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

FEATURES

1. **Two Temperature Measurement Modes.**

   NORMAL/(PREDICTIVE) mode provides a rapid and accurate means of temperature taking under most conditions.

   MONITOR mode is generally used for long term monitoring, taking axillary temperatures, or when difficult situations prevent accurate temperatures from being taken in the Normal mode.

2. **BACKLIGHT/RECALL.** Used to read the display in poorly lit areas and to recall the last temperature taken. **(*NOTE*: Backlight is not visible in well lit areas).** (Figure 1).

3. **TIMER.** Used to time pulse, respiration, IV drip rate or any other timed measurement. Audible beeps occur at 0, 15 and 30 seconds. It turns off automatically after a full 30 second sweep. The timer may be stopped and reset at any time by pressing the TIMER button.

4. **°F/°C.** Used to set the temperature scale from Fahrenheit to Celsius. The temperature conversion is made automatically when this switch is set to either °F or °C.

Two internal tests occur each time a temperature is taken:

1. **Calibration Check:** an internal check for proper calibration.
2. **Microprocessor Self Check:** an internal check for proper microprocessor operation, including a test of the entire system.

DISPLAY & ERROR INDICATORS

Instrument Malfunction: If this icon is displayed, record error code shown on the display and contact the Welch Allyn Customer Service Department.

Broken Probe: Probe has been damaged. Install new probe.

Probe Position: Probe has broken contact with the tissue. Once proper contact has been achieved, the

icon will be turned off but will reappear at the end of the temperature measurement. It is recommended that a new temperature be taken.

Low Battery: A blinking battery icon indicates that the batteries are low and need to be changed. A non-blinking icon indicates that the batteries are too low for the thermometer to functions. Replace the batteries as described on page 13.

High Temperature: This icon is displayed if the patient's temperature is greater than 42.2°C (108.0°F).

Low Temperature: This icon is displayed if the patient's temperature is less than 28.9°C (84.0°F).

OrL Oral Probe: This icon is displayed to show that an oral probe has been selected.

rEC Rectal Probe: This icon is displayed to show that a rectal probe has been selected.

Walking Segments: This will be displayed when the thermometer is in process of taking a temperature in the Normal mode.

E 3.0 Error Codes: If an error code displays, refer to the troubleshooting section of your technical manual or contact Welch Allyn Customer Service.

Display Test: All segments of the thermometer display will appear briefly when the probe is removed from the storage channel to ensure proper function.

CLEANING & STERILIZATION

Normal cleaning procedure is to wipe the instrument with alcohol, warm water, or nonstaining disinfectant. Ethylene Oxide sterilization is to be used only when absolutely necessary. (The procedure for Ethylene Oxide sterilization is described in your technical manual or is available from Customer Service.)

BATTERY REPLACEMENT

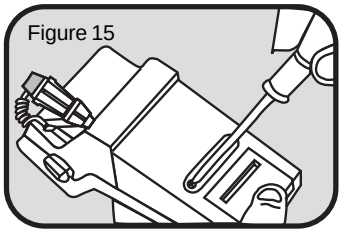


Figure 15

To replace the batteries, remove the battery compartment access screw (Figure 15). Slide the access cover to expose the batteries. **Before installing new batteries, with batteries removed, press and hold the backlight/recall button for 10 seconds to assure a proper reset of the internal microprocessor.** Replace with three

new AA Alkaline batteries. An 8 second display test is automatically performed following battery replacement.

CUSTOMER SERVICE

For customer service, technical or clinical support, please contact Welch Allyn at (800) 854-2904 from 7:00 AM to 5:00 PM Pacific Time.

ACCESSORIES AVAILABLE

- Wall Mount Bracket with locking mechanism for securing thermometer to wall or cabinet.
- Calibration Key for verifying calibration - inserts in place of probe plug and provides correct reading of 97.3°F.
- Rectal Probe.
- Thermometer Stand.
- Second Probe Holder.
- Calibration Tester.

SPECIFICATIONS

- Range: 28.9°C - 42.2°C (84.0°F - 108.0°F).
- Battery Capacity: about 6,000 temperatures under normal use.
- Calibration Accuracy: $\pm$0.1°C ($\pm$0.2°F).
- Dimensions: length 6.25 inches; width 3.7 inches; height 2.4 inches; weight 10.5 ounces.

1-YEAR LIMITED WARRANTY

Instrumentation purchased new from Welch Allyn is warranted to be free from defects in material and workmanship under normal use and service for a period of one year from the date of first shipment from Welch Allyn. This warranty shall be fulfilled by Welch Allyn or its authorized representative repairing or replacing at Welch Allyn's discretion, any such defect, free of charge for parts and labor.

Welch Allyn should be notified via telephone of any defective product and the item should be immediately returned, securely packaged and postage prepaid to Welch Allyn. Loss or damage in shipment shall be at purchaser's risk.

Welch Allyn will not be responsible for loss associated with the use of any Welch Allyn product that (1) has had the serial number defaced, (2) has been repaired by anyone other than an authorized Welch Allyn Service Representative, (3) has been altered, or (4) has been used in a manner other than in accordance with instructions.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED, WELCH ALLYN WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

EUROPEAN CONTACT FOR REGULATORY COMPLIANCE

European Regulatory Manager
Welch Allyn Ltd.
Navan, Co. Meath
Republic of Ireland Phone: 353-46-28122 Fax: 353-46-28536

European Union Electromagnetic Compatibility Directive

The CE mark on this product indicates it has been tested to and conforms with the provisions noted within the 89/336/EEC Electromagnetic Compatibility Directive

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